Technical Specifications

MicroCam II 2.4GHz Transmitter

Fixed Channel:	*2432MHz Frequency band*
RF Output Power:	*CE and FCC compliant*
Operating Power:	*8V DC 200mA*
Power Consumption:	*100mA*
Size:	*22 x 22 x 25 mm*
Antenna:	*Omni-directional*
Transmitting Range:	*Up to 100M line of sight*
Weight:	*20 grams*
Operating Temperature:	*0° ~ 50°C (32° ~ 122°F)*

MicroCam II CMOS Colour Camera

Sensor:	*1/3"(8.5mm) Colour CMOS*
Horizontal Resolution:	*380 TV lines*
Auto Electronic Exposure:	*1/60 - 1/15000 sec.*
Minimum Illumination:	*1 Lux@ f1.2*
Signal to Noise Ratio:	*>48dB*
Board Lens:	*5.6mm*
View Angle:	*60 degrees*
Size:	*16mm x 18mm, board lens*
Video System:	*PAL 50Hz (Australia, UK/Europe), NTSC 60Hz (USA and Canada)*

Automatic Exposure / Gain / White balance.

MicroCam II 2.4GHz Receiver

Frequency:	*4 Channels in 2.4 Ghz frequency band**
Video input/output:	*1V p - p / 75 ohm*
Audio input / output:	*0.8V / 600 ohm*
Antenna:	*60 degree directional*
Audio Bandwidth:	*50 - 17000 Hz*
Operating Power:	*12V DC 300mA*
Power Consumption:	*180mA*
Size:	*150 x 88 x 40 mm*

**The MicroCam II works on Channel 2 (2432MHz) currently. Other channels are reserved for future accessory cameras, and are not usable at this time. See the Swann website or ask your sales person for information on when the accessory cameras will become available.*

Please note: Due to regulatory restrictions , the audio feature is not available in the USA, Canada and other countries where covert audio devices are not allowed.

Troubleshooting

Poor Picture: *Realign antennas, slightly adjust the position of the MicroCam II or Receiver. Reduce or increase the distance between MicroCam II and Receiver.*

Lines only - no clear picture: *Check to confirm there is no microwave oven or other 2.4GHz equipment ie; Cordless Telephones, Wireless Baby Monitors etc operating close by. Make sure the Receiver is on Channel 2*

Picture ghosting: *Check for interference caused by obstacles such as trees, vehicles, buildings etc. Try a different location for the MicroCam II / Receiver.*

No picture*: check the receiver to confirm it is turned ON and make sure the A/V connection of the*

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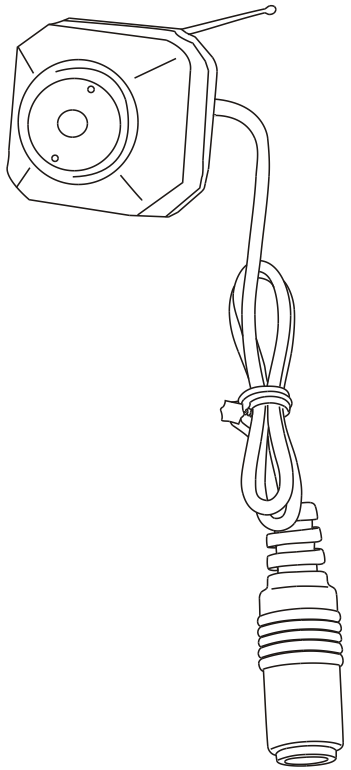
Swann SECURITY

2.4 GHz WIRELESS MicroCam II

Quality Surveillance



Installation Guide & Manual

Wireless Miniature Color Security Camera

MicroCam II comes with...

- *1 x MicroCam II Miniature Colour Camera / 2.4GHz Transmitter*
- *1 x MicroCam II 2.4GHz Receiver*
- *1 x 9v Battery Snap for Transmitter/Camera*
- *1 x Mains Power Adaptor (8V for use with MicroCam II)*
- *1 x Mains Power Adaptor (12V for use with Receiver)*
- *RCA Cable*
- *Metal Camera stand*
- *This Instruction Sheet*

If any of these items are missing, please contact your retailer.

Things you should know about MicroCam II

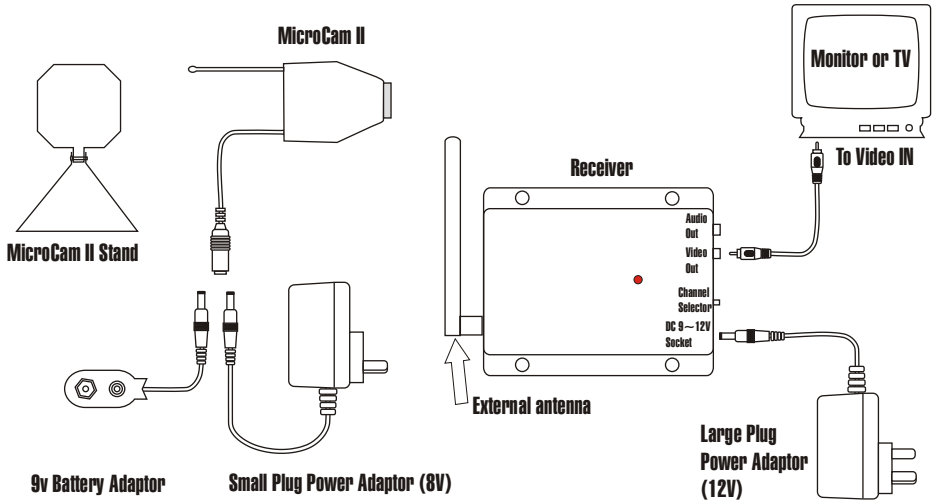
- DUE TO GOVERNMENT REGULATIONS RELATING TO THE USE OF COVERT LISTENING DEVICES IN SOME COUNTRIES, THE MICROCAM II TRANSMITTER SENDS VIDEO ONLY - IT DOES NOT HAVE AUDIO TRANSMISSION CAPABILITY WHERE THESE RESTRICTIONS ARE IN PLACE.
- *Best Results are achieved where there is a clear "line of sight" between the MicroCam II transmitter and Receiver.*
- *Try to avoid obstacles such as trees, walls, cars, trucks and buildings when maximum range is required.*
- *Interference from certain electronic equipment or the moving human body can also affect the range obtainable.*
- *For best reception, position the antennas of the transmitter and receiver 1.5 to 2m above the ground. Please test all devices before final installation because transmission quality can often be improved by moving the components slightly.*
- *Turn off the transmitter and receiver if the system is not in use.*
- *Do not touch the antennas when the system is switched on.*

Installing MicroCam II

The MicroCam II features an omni-directional antenna which is most effective when used in the UPRIGHT position.

1) *Connect both the MicroCam and the Receiver to their respective power adaptors. *IMPORTANT: MicroCam II requires an 8 - 9V power supply, the receiver uses a 9- 12V power supply.**

2) *Connect the Receiver to the equipment you wish to view the camera on(monitor, TV, VCR etc) using the supplied RCA cable.*



3) After connecting both the MicroCam II and the Receiver make sure the receiver is switched to channel 2, accessory cameras to take advantage of the other channels will be available at a later date. Obtain the best picture by adjusting the position of the MicroCam II and Receiver unit to suit. Try slightly different locations of either unit for optimum results.

4) *If required, place the MicroCam II into the Camera Stand by first placing the cable through the bracket and then gently push the camera in until it is correctly seated. Tighten the screw on the stand until firm.*

Direct the antenna of the receiver toward the antenna of the MicroCam II. The antenna can be swivelled to face in the appropriate direction by loosening the nut connecting it to the antenna socket. Once the antenna is correctly positioned, finger tighten the nut to lock the antenna in place.

IMPORTANT!

- *To avoid the risk of damage to MicroCam II, use only the supplied power adaptors.*
- *Don't place above or near a heat source which may cause the equipment to overheat.*
- *Avoid "Oily" locations*
- *Microwave ovens can cause interference and diminish the quality of the signal if the MicroCam II or Receiver are located close by.*
- *Beware of humid locations. Water droplets or spray may damage the units. If condensation does occur, do not use until the equipment has dried out.*
- *Never paint or attach metallic labels or stickers of any kind*
- *Do not use two MicroCam II systems operating at the same time in the same area. This will result in picture interference.*
- *Do not cut the DC power cable of the MicroCam II to fit with another power source. This may result in damage to the MicroCam II & any unauthorised modifications will void your warranty.*